tional Application No Pci/US 99/19361

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/12 C12N5/10

C12Q1/68 A61K38/17

C12N1/21

CO7K14/47

C07K16/18

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC 7 & C12N & C07K & C12Q \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	NTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	DATABASE EMHUM1 [Online] E.M.B.L. Databases Accession Number: AF047448, 17 March 1998 (1998-03-17) YANG L ET AL: "Homo sapiens TLS-associated protein TASR mRNA, complete cds" XP002128498 99.5% identity in 621 bp overlap with SeqIdNo.26 / 100% identity in 155 aa	1-16,19
P,X	overlap with SeqIdNo.1 abstract -& YANG L ET AL: "Oncoprotein TLS interacts with serine-arginine proteins involved in RNA splicing" JOURNAL OF BIOLOGICAL CHEMISTRY., vol. 273, no. 43, 23 October 1998 (1998-10-23), pages 27761-27764, XP002128497 the whole document -/	1-16,19

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
*A* document defining the general state of the art which is not considered to be of particular relevance  *E* earlier document but published on or after the international filing date  *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means  *P* document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
24 January 2000	0 2. 05. 2000		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Lonnoy, 0		

1

itional Application No PCT/US 99/19361

		PCT/US 99/	17301
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	T	Relevant to claim No.
X	EP 0 679 716 A (MATSUBARA KENICHI ;OKUBO KOUSAKU (JP)) 2 November 1995 (1995-11-02)	/	3-11
X	Human gene signature HUMGS00127 (SeqIdNo.113): 98.9% identity in 349 bp overlap with SeqIdNo.26 -& DATABASE GENESEQ [Online] E.M.B.L. Databases		3-11
	Accession Number: T19113, 4 July 1996 (1996-07-04) MATSUBARA K ET AL: "Human gene signature HUMGS00127"		
	XP002128499 98.9% identity in 349 bp overlap with SeqIdNo.26 abstract		
Α	US 5 561 222 A (KEENE JACK D ET AL) 1 October 1996 (1996-10-01) figure 6		
Α	WO 98 23744 A (INCYTE PHARMA INC ;BANDMAN OLGA (US); GOLI SURYA K (US)) 4 June 1998 (1998-06-04)	2	



(PCT Article 18 and Rules 43 and 44)

	(PCT Afficie 15 and fide		Transmittel of International Search Report
Applicant's or agent's file reference	FOR FURTHER S	see Notification of Form PCT/ISA/22	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
PF-0579 PCT International application No.	International filing date (day)	/month/year)	(Earliest) Priority Date (day/month/year)
	20/08/1999		21/08/1998
PCT/US 99/19361	20/08/1993		21, 66, 1336
Applicant			
INCYTE PHARMACEUTICALS, I	NC et al.		
INCITE PHARMACEUTICALS, I			
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this Internations ansmitted to the International I	al Searching Auth Bureau.	ority and is transmitted to the applicant
This International Search Report consists	of a total of 6	sheets.	
It is also accompanied by	a copy of each prior art docu	ment cited in this	report.
Basis of the report	' lead the all and the wood corr	iod out on the has	ais of the international application in the
<ul> <li>a. With regard to the language, the language in which it was filed, un</li> </ul>	international search was carriless otherwise indicated unde	er this item.	sis of the international application in the
			he international application furnished to this
Authority (Rule 23.1(b)).			
b. With regard to any nucleotide a was carried out on the basis of the	nd/or amino acid sequence on the sequence listing :	disclosed in the ir	nternational application, the international search
Contained in the internat	ional application in written forn		
X filed together with the int	ternational application in comp	outer readable for	m.
	to this Authority in written form		
furnished subsequently	to this Authority in computer re	eadble form.	had been also declarated in the
international application	as filed has been furnished.		does not go beyond the disclosure in the
the statement that the ir furnished	formation recorded in comput	er readable form	is identical to the written sequence listing has been
2. X Certain claims were fo	und unsearchable (See Box	1).	
3. X Unity of invention is la			
4. With regard to the <b>title</b> ,	authoritized by the configent		
	submitted by the applicant. dished by this Authority to reac	d as follows:	
the text has been estab	mished by this Admonty to road	as follows:	
5. With regard to the abstract,			
the text is approved as	submitted by the applicant.		1) I was a see in Day III. The applicant may
the text has been estat within one month from	olished, according to Rule 38.2 the date of mailing of this inter	2(b), by this Authornational search re	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be p	ublished with the abstract is Fi	igure No.	
as suggested by the a			None of the figures.
	failed to suggest a figure.		
because this figure bet	tter characterizes the invention	٦.	



ernational application No.

PCT/US 99/19361

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	see FURTHER INFORMATION sheet PCT/ISA/210
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
se	e additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  see additional sheet, subject 1.
Rema	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claim 19 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 17,18,20

Claims 17, 18 and 20 refer to an agonist, an antagonist and to the use of an antagonist of the polypeptide of claim 1 without giving a true technical characterization. Moreover, no such compound is defined in the application. In consequence, the scope of said claims is ambiguous and vague, and their subject-matter is not sufficiently disclosed and supported (Art. 5 and 6 PCT). No search can be carried out for such speculative claims the wording of which is, in fact, a mere recitation of the results to be achieved.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is preliminary examination on matter which has not been searched following the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-20 (all partially)

A substantially purified polypeptide of SeqIdNo.1, a fragment of said polypeptide; an isolated and purified polynucleotide encoding said polypeptide, a variant polynucleotide having at least 70% sequence identity to said polynucleotide, a polynucleotide hybridising to said polynucleotide, a polynucleotide having a sequence complementary to said polynucleotide; a detection method using said complementary polynucleotide; a polynucleotide comprising a sequence of SeqIdNo.26 or a fragment thereof, a polynucleotide having at least 70% sequence identity to said polynucleotide of SeqIdNo.26; expression vector, host and recombinant method related thereto; a pharmaceutical composition comprising said polypeptide of SeqIdNo.1; an antibody to said polypeptide of SeqIdNo.1 or fragment of said polypeptide of SeqIdNo.1; an antagonist to said polypeptide of SeqIdNo.1; therapeutic application thereof

Inventions 2-25: claims 1-20 (all partially)

Idem as for subject 1 but limited to each of the polypeptide sequences as in SeqIdNo.2-25 and the corresponding polynucleotide sequences as in SeqIdNo.27-50, wherein respectively invention 2 is limited to SeqIdNo.2 and SeqIdNo.27, invention 3 is limited to SeqIdNo.3 and SeqIdNo.28,..., invention 25 is limited to SeqIdNo.25 and SeqIdNo.50.

n on patent family members

l	onal Application No	
PCT/	US 99/19361	

Patent document cited in search report		Publication Patent family date member(s)			Publication date	
EP 0679716	A	02-11-1995	AU CA WO	8116494 A 2153480 A 9514772 A	13-06-1995 01-06-1995 01-06-1995	
US 5561222	Α	01-10-1996	US	5866680 A	02-02-1999	
WO 9823744	Α	04-06-1998	US AU	5962226 A 7410598 A	05-10-1999 22-06-1998	

# PATENT COOPERATION TREATY

REC'D 16 MAR 2001

## PCT

Wiso PGT

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notifi	cation of Transmittal of International
PF-0579 PCT			Examination Report (Form PCT/IPEA/416)
nternational application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)
PCT/US99/19361	20 AUGUST 1999		21 AUGUST 1998
International Patent Classification (IPC Please See Supplemental Sheet.	) or national classification and IP	c 	
Applicant INCYTE PHARMACEUTICALS, IN	IC.		
Examining Authority and	s transmitted to the applicant	been prepa according to	red by this International Preliminary Article 36.
2. This REPORT consists of	a total of 5 sheets.		
This report is also acco been amended and are (see Rule 70.16 and So	mpanied by ANNEXES, i.e., she the basis for this report and/or shection 607 of the Administrative	ieeis comaini	cription, claims and/or drawings which have ng rectifications made before this Authority. under the PCT).
These annexes consist of a	total of <u>U</u> sheets.		
3. This report contains indicate		items:	
I Y Basis of the re			
II Priority	•		
	pent of report with regard to n	ovelty, inve	ntive step or industrial applicability
ر ا		• •	
IV Lack of unity	or invention	gard to nove	lty, inventive step or industrial applicability;
V Reasoned states citations and ex	planations supporting such state	ment	
VI Certain docume	nts cited		
VII Certain defects	in the international application		
VIII X Certain observa	tions on the international applica	oation CF	RECTED
		VE	ERSION
			d. Cabin annual
Date of submission of the demand	D	ate of comple	tion of this report
21 MARCH 2000		16 NOVEM	BER 2000
Name and mailing address of the IP	EA/03	uthorized of the	All Alling LAR.
Commissioner of Patents and T	rademarks	STEPHANI	E ZITOMER, PHI
Washington, D.C. 20231	Т	elephone No.	(703) 308-0196
Form PCT/IPEA/409 (cover sheet)			



	•		
1	International	application	No.

PCT/US99/19361

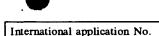
I. Basis of the re	eport				
	elements of the interna	ntional applicatio	n:*		
	ional application as	originally file	ed		ł
سنسميد والتقا					
X the description pages					, as originally filed
pages	NONE				
pages	11011		_ , filed with the	letter of	
X the claims:					, as originally filed
pages			as amended (	together with any	statement) under Article 19
pages					, Illed With the deliner
pages pages		, filed w	ith the letter of		
pages					j
X the drawin	igs:				as originally filed
pages	NONE				, as originally filed , filed with the demand
pages	NONE		filed with the	letter of	, , , , , , , , , , , , , , , , ,
pages	NONE		, med with the		
<b> </b> — .	. listing part of the	description:			
) L	nce listing part of the NONE				, as originally filed
pages	NONE NONE				, filed with the demand
pages	NONE		, filed with the	letter of	
the langua or 553)	age of publication o	of the internati	ional application (	under Rule 48.3(b	examination (under Rules 33.2 allu-
	o any <b>nucleotide and</b> examination was carr	l/or amino aci	d sequence disclos basis of the seque	ed in the internation nce listing:	nal application, the international
contained	d in the internationa	application	in printed form.		
filed tog	ether with the interr	national applic	cation in computer	readable form.	
furnished	d subsequently to th	is Authority is	n written form.		
	d subsequently to th	is Authority i	n computer readal	ole form.	
The state	ement that the subsequent application as fi	quently furnished has been f	ed written sequenc urnished.	e listing does not g	o beyond the disclosure in the
The state been fun	ment that the informa	ition recorded in	n computer readable	form is identical to	the writen sequence listing has
	endments have resu	Ited in the car	ncellation of:		
	ne description, pages	NONE			
		NONE			
	ne claims, Nos.				•
	ne drawings, sheets		e amendments had	not been made, since	e they have been considered to go
beyond	the disclosure as filed	d, as indicated i	n the Supplemental	DOX (Itale 70.2(0))	* on under Article 14 are referred to contain amendments (Rules 70.16
in this repor	t as "originally filed	and are not a			nd annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/19361

III.	Noi	n-establishment of opinion with regard to novelty, inventive step and industrial applicability
1. T	he qu	nestions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be rially applicable have not been and will not be examined in respect of:
	x]	the entire international application.
		claims Nos
		because:
		the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify).
[		the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
[		no international search report has been established for said claims Nos
	A messeque	caningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid nee listing to comply with the standard provided for in Annex C of the Administrative Instructions:  the written form has not been furnished or does not comply with the standard.  the computer readable form has not been furnished or does not comply with the standard.





PCT/US99/19361

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 5 because it fails to contain an adequate written description of the claimed "fragments" of given sequences. The description is inadequate because it does not define the sizes or sequences of a representative number of species of the large genus of claimed fragments. The description is also inadequate in failing to describe a representative number of species of the large genus of "polynucleotide variants" having a given per cent sequence identity and failing to teach how to make the claimed "fragments" and "variants".

Claims 1-20 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because practice of the claimed invention is not adequately described in writing, as required under PCT Rule 5.1(a)(iii), for the reasons set forth in the immediately preceding paragraph.





## International application No.

PCT/US99/19361

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)					
Continuation of: Boxes I - VIII	Sheet 10				
CLASSIFICATION:  The International Patent Classification (IPC) and/or the National classification are as listed below:  IPC(7): C07H 21/02, 21/04; C12P 19/34; C12Q 1/68; C07K 14/435, 16/18 and US Cl.: 435/6, 7.1, 91.2; 536/23.1, 24.3; 530/350, 387.1; 514/2, 44					
	:				



inter onal application No.

PCT/US 99/19361

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  see additional sheet, subject 1.
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

International Application No. PCT/ US 99/19361

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claim 19 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 17,18,20

Claims 17, 18 and 20 refer to an agonist, an antagonist and to the use of an antagonist of the polypeptide of claim 1 without giving a true technical characterization. Moreover, no such compound is defined in the application. In consequence, the scope of said claims is ambiguous and vague, and their subject-matter is not sufficiently disclosed and supported (Art. 5 and 6 PCT). No search can be carried out for such speculative claims the wording of which is, in fact, a mere recitation of the results to be achieved.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International Application No. PCT/ US 99/19361

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-20 (all partially)

A substantially purified polypeptide of SeqIdNo.1, a fragment of said polypeptide; an isolated and purified polynucleotide encoding said polypeptide, a variant polynucleotide having at least 70% sequence identity to said polynucleotide, a polynucleotide hybridising to said polynucleotide, a polynucleotide having a sequence complementary to said polynucleotide; a detection method using said complementary polynucleotide; a polynucleotide comprising a sequence of SeqIdNo.26 or a fragment thereof, a polynucleotide having at least 70% sequence identity to said polynucleotide of SeqIdNo.26; expression vector, host and recombinant method related thereto; a pharmaceutical composition comprising said polypeptide of SeqIdNo.1; an antibody to said polypeptide of SeqIdNo.1 or fragment of said polypeptide of SeqIdNo.1; an antagonist to said polypeptide of SeqIdNo.1; therapeutic application thereof

Inventions 2-25: claims 1-20 (all partially)

Idem as for subject 1 but limited to each of the polypeptide sequences as in SeqIdNo.2-25 and the corresponding polynucleotide sequences as in SeqIdNo.27-50, wherein respectively invention 2 is limited to SeqIdNo.2 and SeqIdNo.27, invention 3 is limited to SeqIdNo.3 and SeqIdNo.28,..., invention 25 is limited to SeqIdNo.25 and SeqIdNo.50.



Internati Application No PCT/US 99/19361

Patent document cited in search report		Publication date		atent family nember(s)	Publication date
EP 0679716	A	02-11-1995	AU CA WO	8116494 A 2153480 A 9514772 A	13-06-1995 01-06-1995 01-06-1995
US 5561222	Α	01-10-1996	US	5866680 A	02-02-1999
WO 9823744	Α	04-06-1998	US AU	5962226 A 7410598 A	05-10-1999 22-06-1998



### From the INTERNATIONAL BUREAU

### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 18 May 2000 (18.05.00)	in its capacity as elected Office
International application No. PCT/US99/19361	Applicant's or agent's file reference PF-0579 PCT
International filing date (day/month/year) 20 August 1999 (20.08.99)	Priority date (day/month/year) 21 August 1998 (21.08.98)
Applicant HILLMAN, Jennifer, L. et al	

1.	The designated Office is hereby notified of its election made:	
	X in the demand filed with the International Preliminary Examining Authority on:	
	21 March 2000 (21.03.00)	
	in a notice effecting later election filed with the International Bureau on:	
2.	The election X was	
	was not	
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).	

I		Authorized officer
	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Juan Cruz
	Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

# PATENT COOPERATION TREATY .

# **PCT**

REC'D	15 DEC 2000	
WIP	O PCT	Ì

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF-0579 PCT	FOR FURTHER ACTION	See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/	month/year)	Priority date (day/month/year)			
PCT/US99/19361 20 AUGUST 1999 21 AUGUST 1998						
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification and I	PC				
Applicant INCYTE PHARMACEUTICALS, INC	C.					
This international prelimin     Examining Authority and is	ary examination report has	s been preparations to	red by this International Preliminary Article 36.			
2. This REPORT consists of a	total of sheets.					
been amended and are the	npanied by ANNEXES, i.e., show the basis for this report and/or strion 607	heets containir	cription, claims and/or drawings which have ng rectifications made before this Authority. under the PCT).			
These annexes consist of a t	otal of sheets.					
3. This report contains indication	ns relating to the following	items:				
I X Basis of the repo	ort					
II 👿 Priority						
	ent of report with regard to a	novelty, inven	tive step or industrial applicability			
		<b>,</b>	•			
V Reasoned stateme		egard to novel	ty, inventive step or industrial applicability;			
VI Certain document						
VII Certain defects in	the international application					
	ons on the international applic	ation				
		ate of completi	on of this report			
Date of submission of the demand		·	•			
21 MARCH 2000		16 NOVEME	BER 2000			
Name and mailing address of the IPE	A/US A	uthorized office	er Augustus II			
Commissioner of Patents and Trad		STEPHANIE	Silla Collins &			
Washington, D.C. 20231 Facsimile No. (703) 305-3230	Te	elephone No.	(703) 308-0196			
1 aconnic 140. (100) 505 5250						



International application No.

PCT/US99/19361

I.	Ba	sis of	the report	
1.	With	regard	to the elements of the international application	nn·*
		•	ternational application as originally fil	
			escription:	
	$\Lambda$		. 70	, as originally filed
			NONE	, filed with the demand
				, filed with the letter of
	,			
L			aims: 73-74	
		-		, as originally filed
				, as amended (together with any statement) under Article 19, filed with the demand
			NONE , filed w	ith the letter of, filed with the demand
		1 -0	,	
	X	the di	rawings:	
		pages	NONE	, as originally filed
			NONE	, filed with 'he demand
		pages	NONE	, filed with the letter of
Г	x	the se	quence listing part of the description:	
ι			1101 m	, as originally filed
				, filed with the demand
				, filed with the letter of
] ] ]	Thes	e elem the la	nguage of a translation furnished for the nguage of publication of the internation guage of the translation furnished for the page of the translation furnished for the page of the translation furnished for the page of the	hority in the following language which is: ne purposes of international search (under Rule 23.1(b)).
3.			rd to any <b>nucleotide and/or amino acid</b> ry examination was carried out on the b	sequence disclosed in the international application, the international asis of the sequence listing:
[	$\Box$ ,	contai	ined in the international application in	printed form.
ſ			together with the international applicat	
L T	==		hed subsequently to this Authority in v	·
l	=			
ļ			hed subsequently to this Authority in o	
l	<u></u>	intern	ational application as filed has been furn	
į		The st been f	atement that the information recorded in coursing	omputer readable form is identical to the writen sequence listing has
4.[	X	The a	mendments have resulted in the cance	llation of:
		X	the description, pages NONE	
	Ì	X	the claims, Nos. NONE	
	Ì	$\overline{\mathbf{x}}$	the drawings, sheets/fig NONE	
5.	一,	تت ۳۳۰۰ -		mendments had not been made since they have been considered to so
٥.			nd the disclosure as filed, as indicated in the	nendments had not been made, since they have been considered to go e Supplemental Box (Rule 70.2(c)).**
	in thi	cemen s repo	t sheets which have been furnished to the rec ort as "originally filed" and are not annex	ceiving Office in response to an invitation under Article 14 are referred to this report since they do not contain amendments (Rules 70.16
		70.17) renlac		must be referred to under item 1 and annexed to this report.



nternation	al applie	cation	No.

PCT/US99/19361

II. Priority
1. This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
copy of the earlier application whose priority has been claimed.
translation of the earlier application whose priority has been claimed.
2. X This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.
Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:
NONE



International application No. PCT/US99/19361

III. N	on-establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The o	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be strially applicable have not been and will not be examined in respect of:
X	the entire international application.
	claims Nos
	because:
	the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify).
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos
	caningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid more listing to comply with the standard provided for in Annex C of the Administrative Instructions:  the written form has not been furnished or does not comply with the standard.  the computer readable form has not been furnished or does not comply with the standard.
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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#### VIII. Certain observations on the international application

The following observations on the claims of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 5 because it fails to contain an adequate written description of the claimed "fragments" of given sequences. The description is inadequate because it does not define the sizes or sequences of a representative number of species of the large genus of claimed fragments. The description is also inadequate in failing to describe a representative number of species of the large genus of "polynucleotide variants" having a given per cent sequence identity and failing to teach how to make the claimed "fragments" and "variants".

Claims 1-20 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because practice of the claimed invention is not adequately described in writing, as required under PCT Rule 5.1(a)(iii), for the reasons set forth in the immediately preceding paragraph.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

#### PCT/US99/19361

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(To	be u	sed	when	the	space	in	any	of	the	preceding	boxes	is	not	sufficie	nt)

Continuation of: Boxes I - VIII

Sheet 10

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The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C07H 21/02, 21/04; C12P 19/34; C12Q 1/68; C07K 14/435, 16/18 and US Cl.: 435/6, 7.1, 91.2; 536/23.1, 24.3; 530/350, 387.1; 514/2, 44

### **PCT**





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(71) Applicant (for all designated States except US): INCYTE PHARMACEUTICALS, INC. [US/US]; 3174 Porter Drive, Palo Alto, CA 94304 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HILLMAN, Jennifer, L. [US/US]; 230 Monroe Drive #12, Mountain View, CA 94040 (US). YUE, Henry [US/US]; 826 Lois Avenue, Sunnyale, CA 94087 (US). TANG, Y., Tom [CN/US]; 4230 Ranwick Court, San Jose, CA 95118 (US). CORLEY, Neil,

C. [US/US]; 1240 Dale Avenue #30, Mountain View, CA 94040 (US). GUEGLER, Karl, J. [CH/US]; 1048 Oakland Avenue, Menlo Park, CA 94025 (US). GORGONE, Gina, A. [US/US]; 1253 Pinecrest Drive, Boulder Creek, CA 95006 (US). PATTERSON, Chandra [US/US]; 490 Sherwood Way #1, Menlo Park, CA 94025 (US). BAUGHN, Mariah, R. [US/US]; 14244 Santiago Road, San Leandro, CA 94577 (US). LAL, Preeti [IN/US]; 2382 Lass Drive, Santa Clara, CA 95054 (US). BANDMAN, Olga [US/US]; 366 Anna Avenue, Mountain View, CA 94043 (US), REDDY, Roopa [IN/US]; 1233 W. McKinley Drive, Sunnyvale, CA 94086 (US), AZIMZAI, Yalda [US/US]; 2045 Rock Springs Drive, Hayward, CA 94545 (US). SHIH, Leo, L. [US/US]; Apartment B, 1081 Tanland Drive, Palo Alto, CA 94304 (US). YANG, Junming [CN/US]; 7136 Clarendon Street, San Jose, CA 95129 (US). LU, Dyung, Aina, M. [US/US]; 55 Park Belmont Place, San Jose, CA 95126 (US).

(74) Agents: BILLINGS, Lucy, J. et al.; Incyte Pharmaceuticals, Inc., 3174 Porter Drive, Palo Alto, CA 94304 (US).

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(54) Title: HUMAN RNA-ASSOCIATED PROTEINS

(57) Abstract

The invention provides human RNA-associated proteins (RNAAP) and polynucleotides which identify and encode RNAAP. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with the expression of RNAAP.

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